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## PATENT ABSTRACTS OF JAPAN

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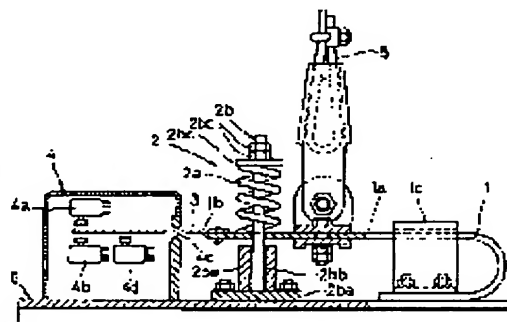
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## (54) EMERGENCY DETECTOR FOR HOME ELEVATOR

## (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide an emergency detector for a home elevator by which breakage of a suspending rope or an overload working on the suspending rope can be detected by means of a simple structure at a low cost.

**SOLUTION:** In a suspending plate spring 1, which is connected to a suspending rope 5 and is fixed in a car 6, the tip part serves as a free end 1b while a horizontal part 1a is positioned above a car 6, and a pressing spring 2 pressing the horizontal part 1a to the car 6 side is engaged in the horizontal part 1a of the suspending plate spring 1, while a detecting plate spring 3 with a low spring constant is protrudently fixed in the free end 1b of the suspending plate spring 1. In a detection chamber 4, in which a rope breakage detection switch 4a is arranged on the opposite side of the car 6 while an overload detection switch 4b is arranged at a certain interval on the car 6 side, a detection plate spring insertion part 4c, through which the detection plate spring 3 is passed, is arranged. The detection plate spring 3 is inserted through the plate spring insertion part 4c so as to be positioned between both of the switches 4a, 4b in the detection chamber 4.



## LEGAL STATUS

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